

I hereby appoint the following attorney(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Richard E. Jenkins (Registration No. 28,428); Jennifer L. Skord (Registration No. 30,687); Jeffrey L. Wilson (Registration No. 36,058); Arles A. Taylor, Jr. (Registration No. 39,395); and/or Gregory A. Stephens (Registration No. 41,329).

Address all telephone calls to Richard E. Jenkins or Jennifer L. Skord or Jeffrey L. Wilson or Arles A. Taylor, Jr. or Gregory A. Stephens at telephone number (919) 493-8000.

Address all correspondence to:

Jenkins & Wilson, P.A.
Suite 1400 University Tower
3100 Tower Boulevard
Durham, North Carolina 27707

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Alan R. Brash

Inventor's signature Alan R Brash Date 5/01/98

Residence Nashville, Tennessee Citizenship U.K.

PostOffice Address 1105 Holly Tree Farms

Brentwood, TN 37027

Full name of second joint inventor, if any William E. Boeglin

Inventor's signature William E. Boeglin Date 5/01/98

Residence Nashville, Tennessee Citizenship USA

PostOffice Address 233 Paragon Mills Road

Nashville, TN 37211

Full name of third joint inventor, if any Mitsuo Jisaka

Inventor's signature _____ Date _____

Residence _____ Citizenship _____

PostOffice Address _____

Full name of fourth joint inventor, if any _____

Inventor's signature _____ Date _____

Residence _____ Citizenship _____

PostOffice Address _____

DECLARATION FOR PATENT APPLICATION

Docket No. 1242/5

As an inventor named below, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS, the specification of which

(check one) is attached hereto.
 was filed on April 16, 1998 as Application Serial No.
09/061,768 and was amended on _____
(if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations 1.56(a). In compliance with this duty, an Information Disclosure Statement in accordance with Title 37, Code of Federal Regulations 1.97

is attached hereto.

(check one) will be submitted later (if necessary).
 was filed with patent application

I hereby claim priority benefits under Title 35, United States Code 119, of any application(s) for patent or inventor's certificate listed below and have also identified below any application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Application(s) Priority Claimed

None (Number)	(Country)	(Day/Month/Year Filed)	Yes	No
			Yes	No
			Yes	No

I hereby claim the benefit under Title 35, United States Code 120, of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations 1.56(a), which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

None (Application Serial No.)	(Filing Date)	(Status--patented, pending, abandoned)

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Post Office Address _____

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Inventor's signature _____ Date _____

Residence Nashville, Tennessee Citizenship USA

Post Office Address _____

Full name of third joint inventor, if any Mitsuo Jisaka

Inventor's signature Mitsuo Jisaka Date May, 1, 1998

Residence Matsue, Shimane Citizenship Japan

Post Office Address 2-12-1-103 Hamanogi, Matsue, Shimane 690-8504
Japan

Full name of fourth joint inventor, if any _____

Inventor's signature _____ Date _____

Residence _____ Citizenship _____

Post Office Address _____

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Priority Claimed

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Inventor's signature _____ Date _____

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Full name of second joint inventor, if any William E. Boeglin

Inventor's signature _____ Date _____

Residence Nashville, Tennessee Citizenship USA

Post Office Address _____

Full name of third joint inventor, if any Mitsuo Jisaka

Inventor's signature Mitsuo Jisaka Date May, 1, 1998

Residence Matsue, Shimane Citizenship Japan

Post Office Address 2-12-7-103 Hamanogi, Matsue, Shimane 690-8504

Japan

Full name of fourth joint inventor, if any _____

Inventor's signature _____ Date _____

Residence _____ Citizenship _____

Post Office Address _____



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SEPTEMBER 10, 1998

PTAS

JENKINS & WILSON, P.A.
RICHARD E. JENKINS
SUITE 1400, UNIVERSITY TOWER
3100 TOWER BOULEVARD
DURHAM, NORTH CAROLINA 27707

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RECORDATION DATE: 06/19/1998

REEL/FRAME: 9276/0126
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:

BRASH, ALAN R.

DOC DATE: 05/01/1998

ASSIGNEE:

BOEGLIN, WILLIAM E.

DOC DATE: 05/01/1998

ASSIGNEE:

JISAKA, MITSUO

DOC DATE: 05/01/1998

ASSIGNEE:

VANDERBILT UNIVERSITY
OFFICE OF TECHNOLOGY TRANSFER BOX
6009, STATION B
850 BAKER BUILDING, 110 21ST
STREET
NASHVILLE, TENNESSEE 37235

SERIAL NUMBER: 09061768

FILING DATE: 04/16/1998
ISSUE DATE:

PATENT NUMBER:

STEVEN POST, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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07-06-1998

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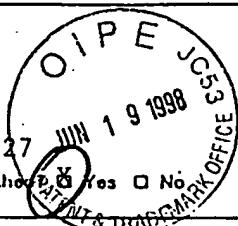
To the Honorable Commissioner of Pat.

100755298

d original documents or copy thereof.

1. Name of conveying party(ies):

Alan R. Brash
1105 Holly Tree Farms
Brentwood, Tennessee 37027

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

Assignment *6-19-98* Mortgage
 Security Agreement Change of Name
 Other _____

Execution Date: May 1, 1998

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: N/A

A. Patent-Application No.(s)

09/061,768

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Jenkins & Wilson, P.A.

Internal Address: _____

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

 Enclosed Authorized to be charged to deposit account any deficiencies or overpayments

8. Deposit account number:

50-0426

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Richard E. Jenkins

Name of Person Signing

Signature

6-16-98

Date

5

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Mail documents to be recorded with required coversheet information to:
 Commissioner of Patents & Trademarks, Box Assignments
 Washington, D.C. 20231

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

- 2 -

Conveying Parties - Continuation

William E. Boeglin
233 Paragon Mills Road
Nashville, Tennessee 37211

Mitsuo Jisaka
Matsue, Shimane
2-12-7-103 Hamanogi
Japan

PATENT

ASSIGNMENT

WHEREAS, we, Alan R. Brash of the City of Nashville, State of Tennessee, William E. Boeglin of the City of Nashville, State of Tennessee, and Mitsuo Jisaka, a citizen of Japan and residing at Matsue, Shimane, (hereinafter "Assignors"), have co-invented certain new and useful improvements in LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS for which an application for Letters Patent of the United States was filed on April 16, 1998 as Application Serial No. 09/061,768.

AND, WHEREAS, Vanderbilt University, a non-profit organization, located at Nashville, Tennessee (hereinafter "Assignee"), is desirous of acquiring an interest therein.

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors have sold and by these presents do hereby sell, assign, transfer and convey unto the said Assignee, its successors and assigns, their entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with their right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this assignment and sale had not been made.

Assignors hereby request that said Letters Patent be issued in accordance with this assignment.

Assignors further covenant and agree, and likewise bind their heirs, legal representatives and assigns, to promptly communicate to said Assignee or its

representatives any facts known to them relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Executed this 1st day of May, 1998.

Alan R. Brash
Alan R. Brash

Witnessed by:

MMMD 5/1/98
Name Jason Morrow MD Date

Susan J. Petty 5/1/98
Name Date

Executed this 1 day of May, 1998.

William E. Boeglin
William E. Boeglin

Witnessed by:

M. Jennifer Baneth 5-1-98
Name Date

Darney O. Jackson 5/1/98
Name Date

Executed this 1 day of MAY, 1998.

Mitsuo Jisaka
Mitsuo Jisaka

Witnessed by:

Kazushige Yokota May 1, 1998
Name Date

Tsutomu Nagaya May 1, 1998
Name Date